UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
07/02/2003	Mark Norris	00025-16611	4524	
7590 02/07/2007 TH & WESTERN . L.P		EXAM	INER ·	
8180 SOUTH 700 EAST, SUITE 200 SANDY, UT 84070	•	TUGBANG, A	TUGBANG, ANTHONY D	
	•	ART UNIT	PAPER NUMBER	
		3729		
V PERIOD OF RESPONSE	MAIL DATE	DELIVER	/ MODE	
			DELIVERY MODE	
	07/02/2003 7590 02/07/2007 TH & WESTERN, LLP. 00 EAST, SUITE 200	07/02/2003 Mark Nortis 7590 02/07/2007 TH & WESTERN, LLP. 00 EAST, SUITE 200 4070 Y PERIOD OF RESPONSE MAIL DATE	07/02/2003 Mark Norris 00025-16611 7590 02/07/2007 TH & WESTERN, LLP. 00 EAST, SUITE 200 4070 ART UNIT 3729 Y PERIOD OF RESPONSE MAIL DATE DELIVERY	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		
	10/613,540	NORRIS ET AL.		
Office Action Summary	Examiner	Art Unit		
· ·	A. Dexter Tugbang	3729		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
 Responsive to communication(s) filed on <u>26 October 2006</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 				
Disposition of Claims				
4) ☐ Claim(s) 1-37 is/are pending in the application. 4a) Of the above claim(s) 2-17 and 20-37 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,18 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		*		
Application Papers				
 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 01 April 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 				
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/1/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te		

DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of the invention of Group I, Species I-G, Claims 1, 18 and 19, in the reply filed on October 26, 2006 is acknowledged.
- 2. Claims 2 through 17 and 20 through 37 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on October 26, 2006.

Drawings

- 3. The drawings are objected to because of the following:
- a) lines, numbers and letters are not uniformly thick and well defined, clean, durable, and black (37 CFR 1.87(l) in Figures 1, 4, 6a-6e, 7-9, 13-15, 17, 19-22, 24 and 25; and
 - b) solid black shading (37 CFR 1.84 (m)) is not permitted in Figures 6a-6e.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the

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renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use:
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

5. The abstract of the disclosure is objected to because the content is not directed to the claimed invention, i.e. at least the process steps outlined in Claim 1, or the like. Correction is required. See MPEP § 608.01(b).

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6. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --A Process of Preparing a Piezoelectric Emitter Configuration--.

7. The disclosure is objected to because of the following informalities: on page 9, there is no description of Figure 6e.

Appropriate correction is required.

Claim Objections

8. Claim 1 is objected to because of the following informalities: "c." (line 8) should be removed and "d." (line 11) should be removed. Appropriate correction is required.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 1, 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Selfridge et al 6,011,855.

Selfridge discloses a method of preparing a parametric speaker transducer comprising: positioning an electrically sensitive, mechanically responsive film (e.g. 104 in Fig. 3) over at least one closed-end cavity (e.g. 112) of a rigid support member (e.g. 106); applying a pressure

differential that is positive or negative between that within the cavity and ambient pressure to provide a cavity pressure substantially different from ambient pressure (col. 3, lines 63-67); sealing the film to support member to capture the air in the cavity at the pressure differential in a permanent sealed configuration (col. 4, lines 33-39); and distending the film into an arcuate emitter configuration in response to the pressure differential between cavity pressure and

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ambient pressure on opposing sides of the film, to enable constricting and extending of the

arcuate emitter configuration in response to variations in an applied electrical input at the

piezoelectric film to thereby create a parametric output in a surrounding environment (see Figs.

4a to 4b).

Regarding Claim(s) 18, Selfridge further teaches applying an ultrasonic parametric signal that is capable of decoupling when emitted air to generate a sonic compression wave (col. 9, lines 28-37.

Regarding Claim(s) 19, Selfridge further teaches optimizing the cavity configuration to have a resonant frequency coordinated with a carrier frequency of the ultrasonic parametric signal (col. 6, lines 56+).

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 571-272-4570. The examiner can normally be reached on Monday Friday 7:30 am 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A. Dexter Tugbang

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Primary Examiner

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January 19, 2007